

Claim Amendments and Listing of Claims

1-66. (Cancelled)

67. (Currently amended) A chimeric antibody to human interleukin-6 receptor (IL-6R), comprising:

(1) light chains (L chains) each comprising a human L chain constant region (C region) and an L chain variable region (V region) of a mouse monoclonal antibody to human IL-6R; and

(2) heavy chains (H chains) each comprising a human H chain C region, and H chain V region of a mouse monoclonal antibody to human IL-6R;

wherein the mouse L chain V region includes an amino acid sequence shown in SEQ ID NO: 29 28 and the mouse H chain V region includes an amino acid sequence shown in SEQ ID NO: 31 30.

68. (Previously presented) The chimeric antibody according to claim 67, wherein the human L chain C region is a human Kc region.

69. (Previously presented) The chimeric antibody according to claim 67, wherein the human H C region is a human γ -1C region.

70. (Previously presented) The chimeric antibody according to claim 68, wherein the human H C region is a human γ -1C region.

71. (Currently amended) An isolated DNA encoding an L chain comprising a human L chain C region and an L chain V region of a mouse monoclonal antibody to human IL-6R wherein the human L chain C region is a human Kc region and the L chain V region includes the amino acid sequence that is encoded by the nucleic acid sequence of set forth in SEQ ID NO: 28.

72. (Currently amended) An isolated DNA encoding an H chain comprising a human H chain C region and an H chain V region of a mouse monoclonal antibody to IL-6R, wherein the human H chain C region is a human γ -1C region and the H chain V region includes the amino acid sequence that is encoded by the nucleic acid sequence of set forth in SEQ ID NO: 30.

73. (Currently amended) An expression vector comprising a DNA coding for an L chain comprising a human L chain C region and L chain V region of a mouse monoclonal antibody to human IL-6R, wherein the human L chain C region is a human Kc region, and the L chain V region includes ~~an~~ the amino acid sequence that is encoded by the nucleic acid sequence of shown in SEQ ID NO: 28.

74. (Currently amended) An expression vector comprising a DNA coding for an H chain comprising a human H chain C region and H chain V region of a mouse monoclonal antibody to human IL-6R, wherein the human L chain C region is a human Kc region, and the L chain V region includes ~~an~~ the amino acid sequence that is encoded by the nucleic acid sequence of shown in SEQ ID NO: 30.

75. (Currently amended) A host cell co-transformed with:

(1) an expression vector comprising a DNA coding for an L chain comprising a human L chain C region and an L chain V region of a mouse monoclonal antibody to human IL-6R, and with

(2) an expression vector comprising a DNA coding for an H chain comprising a human H chain C region and an H chain V region of a mouse monoclonal antibody to IL-6R, wherein the human L chain C region is a human Kc region; the L chain V region includes ~~an~~ the amino acid sequence that is encoded by the nucleic acid sequence of shown in SEQ ID NO: 28, the human L chain C region is a human γ -1C region and the H chain V region includes ~~an~~ the amino acid sequence that is encoded by the nucleic acid sequence of shown in SEQ ID NO: 30.

76. (Currently amended) A method of producing the chimeric antibody to human IL-6R according to claim 67, said method at least comprising the steps of:

(a) culturing host cells co-transformed with a first expression vector and a second expression vector, for a time and under conditions sufficient for expression to occur, wherein the first expression vector comprises DNA encoding a human L chain C region and a mouse L chain V region including the amino acid sequence that is encoded by the nucleic acid sequence of set forth in SEQ ID NO: 28 and the second expression vector comprises

DNA encoding a human H chain C region and a mouse H chain V region including a the amino acid sequence that is encoded by the nucleic acid sequence of set forth SEQ ID NO: 30; and

(b) recovering the chimeric antibody from the culture.